



41

1638-

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kaeppler et al. )  
Serial No.: 09/914,001 ✓ ) Group Art Unit: 1638 ✓  
Filed: August 20, 2001 ) Examiner: A. Mehta  
Title: Class II DNA )  
Methyltransferases of )  
Zea mays )

Commissioner for Patents  
Washington, D.C., 20231

Sir:

REVISED AMENDMENT

This Revised Amendment is being submitted in response to the Office Communication mailed on June 17, 2003 in connection with the above-identified application.

STATUS OF THE CLAIMS:

Please delete claims 2-4 and 13-21 without prejudice.

1. (Amended). An isolated ~~and purified~~ DNA sequence which encodes a *Zea mays* zmet2a methyltransferase and which hybridizes to the nucleic acid sequence shown in FIG. 1A (SEQ ID NO:1) under stringent conditions, wherein said stringent conditions comprise at least one wash under conditions comprising 0.2X SSC at 65°C.

Claims 2-4. (Currently Cancelled).

5. (Amended). A recombinant expression cassette comprising the isolated ~~and purified nucleic acid~~ DNA sequence of claims 1 ~~or 3~~, a promoter sequence and a polyadenylation signal sequence, wherein the promoter sequence is operably linked to the ~~nucleic acid~~ DNA sequence and the ~~nucleic acid~~ DNA sequence is operably linked to the polyadenylation signal sequence.

6. (Currently Pending). The recombinant expression cassette of claim 5 wherein the promoter sequence is a constitutive or a tissue specific promoter sequence.